

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Ross, et al.

Examiner: Toan C. To

Serial No.: 10/051,968

Group Art Unit: 3616

Filed: January 16, 2002

For: SPACER APPARATUS FOR SUSPENSION BEAM BUSHING ASSEMBLIES

#### AFFIDAVIT UNDER 37 C.F.R. § 1.132

STATE OF OHIO	)	
	)	SS
COUNTY OF STARK	)	

John Edward Ramsey, being duly sworn, does hereby depose and say as follows, having personal knowledge of the facts sworn to herein:

- 1. That he attended college at the University of Akron from 1970 to 1972 and 1983; and Kent State University from 1973 to 1974; and Broward Community College from 1976 to 1979; and graduated summa cum laude from Walsh University with a bachelor's degree in business in 2002.
- 2. That he completed course work in subject matter including math, machine design, DC and AC currents, chemistry, physics and graphics;
- 3. That he was employed at Spectrum Designs, Novatronics and Wean United from about 1972 to about 1980;

	4.	That during his employ at Spectrum Designs he designed tooling for Pratt &
Whitn	ey Aircı	raft Engines;
	5.	That he worked in Electromechanical Design at Novatronics;
	6.	That he worked as a machine shop helper at Wean United;
	7.	That he has been employed by Hendrickson Trailer Suspension Systems, a
divisio	on of T	he Boler Company, in Canton, Ohio, or its predecessors in interest, since about
1980,	first as a	a suspension designer;
	8.	That in about 1983 to 1984, he was promoted to a design engineer;
	9.	That in about 1987, he was promoted to a project engineer;
	10.	That in about 1991, he was promoted to a principal engineer;
	11.	That in about 1995, he was promoted to senior principal engineer;
	12.	That in about 2000, he was promoted to Manager of New Product Development

and currently holds that position;

- 13. That "glove washer" and "cap style spacer" each is a term used to describe the invention claimed in Claims 1-4 and 11 of U.S. Patent Application Serial No. 10/051,968 filed January 16, 2002, and assigned to The Boler Company.
- 14. That under his direction, two graphs were prepared, attached as Exhibits A and B to this Affidavit, showing, respectively, for each of the years 2003 and 2004, the number of cap style spacers sold directly to customers for use on existing customer suspension assemblies, and the number of cap style spacers used by The Boler Company on its suspension assemblies sold to its customers; and that such sale and use figures include cap style spacers sold and used by all U.S. and international divisions/operations/companies of The Boler Company.
- 15. That the 2003 graph shows rapid acceptance after commercial introduction of the cap style spacers of The Boler Company, as well as sustained commercial acceptance/success.
- 16. That the 2004 graph shows increasing commercial acceptance/success of the cap style washers.
- 17. That he compiled the Glove Washers Regional Managers Reports attached hereto as Exhibit C.
- 18. That the individual glove washer questionnaires which form a part of the Glove Washer's Regional Managers Reports are labeled "CUSTOMER A-H." That in each questionnaire, the company name of the customer, its address, its contact, the date, its phone, the trailer builder, the suspension, the configuration, the trailer D.I.S. and the serial number, together with other selected information on certain questionnaires, have been redacted at his direction due

to the confidential and/or proprietary and/or sensitive business information nature of such redacted information.

- 19. That the glove washer questionnaire completed and submitted to Hendrickson by Customer A and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.
- 20. That the glove washer questionnaire completed and submitted to Hendrickson by Customer B and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.
- 21. That the glove washer questionnaire completed and submitted to Hendrickson by Customer C and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.
- 22. That the glove washer questionnaire completed and submitted to Hendrickson by Customer D and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.
- 23. That the glove washer questionnaire completed and submitted to Hendrickson by Customer E and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.

24. That the glove washer questionnaire completed and submitted to Hendrickson by Customer F and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.

25. That the glove washer questionnaire completed and submitted to Hendrickson by Customer G and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.

26. That the glove washer questionnaire completed and submitted to Hendrickson by Customer H and Hendrickson Regional Managers is evidence of long-felt need in the art, as well as quick acceptance and commercial success of the glove washers.

Further Affiant sayeth not.

OHN EDWARD RAMSEY

BEFORE ME, a Notary Public in and for said County and State, personally appeared **John Edward Ramsey**, who signed the foregoing AFFIDAVIT in my presence and who acknowledged the same to be his free act and deed.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal this 19th day

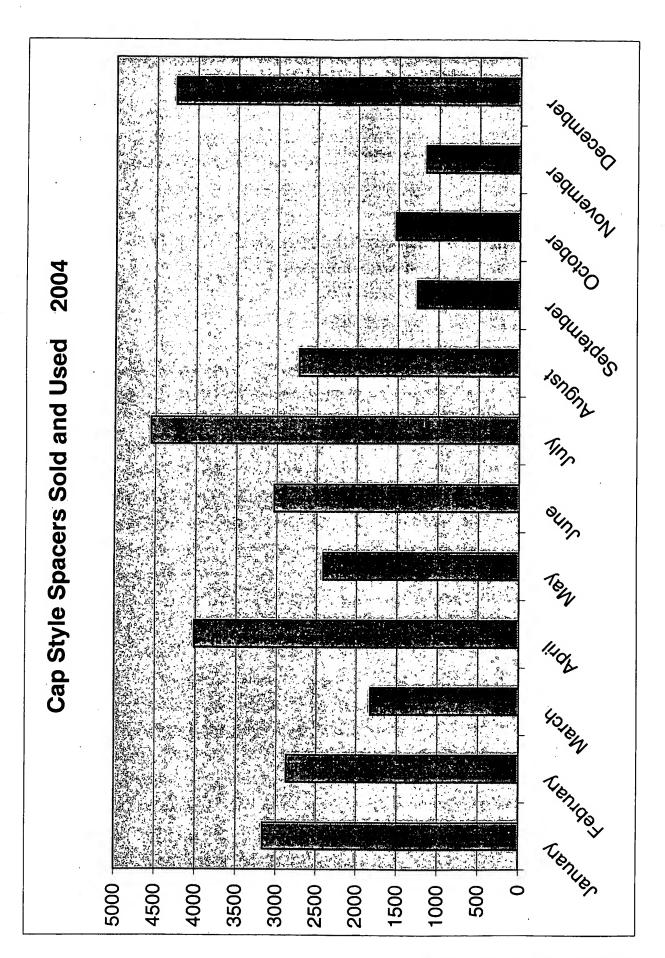
of January, 2005.

(SEAL)

Attorney Docket No. HEND-AI (45007-144)

«CT2:429424\_1»

**EXHIBIT A** 



# Glove Washers

REGIONAL MANAGERS REPORTS



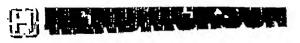
February 2004



Company Name		Date:	
Address:			
Contact:		Phone:	
Trailer Builder:		Suspension:	110000000000000000000000000000000000000
Configuration:		Trailer D.I.S	
Serial No:			
Glove Washers	Date Fitted: 03/03	Date Removed:	In Servica
Unacceptable Due Fleet Purchased G Failure Not Picked Cumage Was Don	White ) Wear Collars Were Giving Arc To Time Down And Labour Rates. Toy Flat Collars For Installation To Hav Up As Vehicles Working In Western Q To Hangers And Trailing Arms. To We Supplied A Triaxle Set Of The Ti Icd In March 2003. Unit Still Has Thes	e Them Fall Out After Only Vueensland.	Veeks Of Service.
Operators Come Glove Type Collar Fluet Is Happy Wi	nents: s Have So Far Lasted 3 Times The Am th These Results At This Time.	ount Of Time The Flat Collar	s Were In Service.
Unfortunately Du Comments From Suspension But I Have Given Me N My Conclusion Bu	gers Comments: e To The "Success" Of The Glove Colle Trailer Fleets And Builders In Queensl t Is No Good For Any Off-Road Work, tany Sicepless Nights, used Upon Current Available Data Is To Fleet Gots 12 Months Or More From A mers Is A Definate Product Improvement	Applications Such As Logging he The Collars Work Very Wo Wearable Part, They Are Ha nt In My Book.	g, Livestock And Mining ell. In Some Of These appy, Going Standard



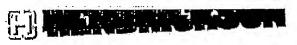
Company Name Date:
Address: Phone: Phone:
Trailer Builder: Suspension:
Configuration; Trailer D.I.5
Serial No:  Slove Washers Date Fitted: November 2003 Date Removed:
History:  have had a history of their Tippers with fitted, chopping out the wear pads and  Bush Migration.
This tanker has experienced the same issues with  Rigs must turn sharply on concrete pads when loading and unloading
Operators Comments: It is early days yet, but since fitting to have also fitted to units progressively  There appears to be a significant improvement with very little evidence of wear in the glove washers
Regional Managers Comments:  This has been an ongoing issue with the flect and caused them to revert up on the last order.  Their confidence in our Suspension has been increased with this change.



Conpany Name	Date:
Address:	
Contact:	Phone:
Trailer Builder:	Suspension;
Configuration;	Trailer D.I.S
Serial No:	Hed: November 2003 Date Removed:
Glove Washers Date Fi	Hted: November 2003 Date Removed:
200 kms unmade gravel road	un from Adelaide to Monba Gas Fields over Bitumum roads with the last
Got to be a major improveme	
Drivers also have expressed s	ignificant improvement in handling and stability
Operators Comments:  is marketed as a Extre Giove washer is absolute mus A major national feet.	eme Duty Package.  St if we are to regain customer confidence and retain the business of
Regional Managers Comm	nents: sue with the fleet and caused them to revert to on the last order.
Their confidence in our Susp	ension has been increased with this change.



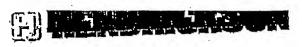
Company Name Date:
Address;
Contact: Phone:
Trailer Builder: Suspension:
Configuration: Trailer D.I.S
Serial No:
Glove Washers   Date Fitted:   November 2002   Date Removed:   Still in Service
The type of application of these Cane Trailers is severe  The Standard wear pads that were used prior on this trailer only had a six month service period.
Operators Comments:  The fleet owner has had trouble tracking the trailer, But has found it.  The fleet owner has now covered 250,000 km since the glove washers were installed.  The trailer has now covered 250,000 km since the glove washers were installed.  and is more than happy with the results,  The fleet has purchased new tankers since and have been fitted with the fleet has purchased new tankers is "Very Good".  The general condition of the wear washers is "Very Good".
Regional Managers Comments: From my point of view and comment from other ficets. The Glove washer is a great Upgrade,



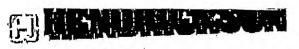
Company Name	Date:
Address:	
Contact	Phone:
Trailer Builder:	Suspension:
Configuration:	Trailer D.I.S
Serial No:	December 2002 Date Removed: October 2003
Glove Washers	Date Fitted: December 2002 Date Removed: October 2005
i	
History: 12 Glove style washe The trailer has travel	s supplied by Hendrickson were fitted to a Tipper on 20th December 2002 ed approx. 180,000 km or more.
At the moment there	is no sign of hanger wear or migration.  Washers were filted we now fit them as standard fitment when bushes are replaced.
, , , )	
Needs replacing.	on the inside of the hanger cutting a circle and wearing the hanger, which in turn ears the centre out and gives no support at all.
I can highly recomm	end the fitting of the Glove washer to reduce all problems from the previous style wa
Regional Manage Customer is very ha This operator runs	ppy with overall results.



Company Name	Date:
Address:	
Contacts	Phone:
Trailer Builder:	Suspension:  Trailer D.Y.S
Configuration:	Maller D.113
Serial No:  Glove Washers   Date Fitted:   December 2	2003 Date Removed:
History: Customer has accepted regular replacement of wear part Northern Australia	ads due to severe conditions encountered
Dush Migration has been an issue, but only if the wear	pads were not maintained.
Operators Comments: Joo early to tell, but has got to be a major improvem	ent
Drivers have commented on improved handling charit	eristics on multi trailer road trains
	.,
Regional Managers Comments:  Product improvement to reduce maintenance has got	to be a priority to retain major fleet customer.



Company Name		Date:
Address:		
Contact:		Phone: Phone:
railer Builder:		Suspension:
Configuration:		Trailer D.I.S
Serial No:		
Glove Washers	Date Fitted:	July 2002 Date Removed: Still in Service
These trailers are a Previously the traile season – with the r	iways turning on urs had to be take	eason they operate around the clock for approx. 3 months at a time tight pads at each end of the trip.  In out of serviced to change the wear pads at least once during the me.
Season. The units washers Could not Hanger wear When these become We are into our 3	have a 1 hour management have a 1 hour management have tried so the available we or available we or available with not	2000) units that must be utilised to maximum capacity during the aintenance period between shifts and premature failure of the aintenance period between shifts and premature failure of the aintenance period between shifts and premature failure of the aintenance period between shifts and premature failure of the success of our own with not a lot of success.  In the seriod between shifts and premature failure of the success and a failure. To say we are happy would be an understatement.  To say we are happy would be an understatement.  To these, including our Road Train Tippers and specified it on our new
		The state of the s



Configuration: T  Serial No: Date Fitted: July 2002 Da	Phone: Spension:
Configuration:  Serial No:  Glove Washers Date Fitted: July 2002 Dat	ailer D.I.S
Configuration:  Serial No:  Glove Washers Date Fitted: July 2002 Dat	e Removed:
Glove Washers Date Fitted: July 2002 Date Fit	e Removed:
Glove Washers Date Fitted: July 2002 Bush Migration In mining and Off Road applications on Road Trains.  They have tried many "Fixes" including making their own "Bush".  Wear pads normally last 3 months and bush migration starts soon a month of the month	
In mining and Off Road applications on Road Trains.  They have tried many "Fixes" including making their own "Bush".  Wear pads normally last 3 months and bush migration starts soon a great or seem operating non stop in Mining operation Manager is "very Happy" with the Dolly.  Can't get it back to the workshop to remove the Glove Washers as	on trailers Tippers and Dollics
Operators Comments:  Oply has been operating non stop in Mining operation  Manager is "very Happy" with the Dolly.  Can't get it back to the workshop to remove the Glove Washers as	
Manager is "very Happy" with the Dolly.  Can't get it back to the workshop to remove the Glove Washers as	ter.
)	and the Site Maintenance
Regional Managers Comments: This fleet has gone to other suspension suppliers for all their gear Migration issue.  The fact that the Glove Washers are working is a good start to with	

## This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

#### **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

#### IMAGES ARE BEST AVAILABLE COPY.

OTHER:

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.